

ABSTRACT OF THE DISCLOSURE

There is provided a camera module of a lens integrated type which can correct limb darkening in operation processing of an electronic circuit by actively employing the technique of shading correction. A camera module of a lens integrated type incorporating a lens, an image sensor and an image processing circuit, wherein the image processing circuit has correction means using, as a correction value, a value obtained by raising the distance from the central axis of an optical system including the lens to the second power to correct a light intensity corresponding to the pixel position of the image sensor. A multiplier constructing the correction means receives, as an input, distance X from the horizontal center to compute X^2 . A multiplier receives, as an input, distance Y from the vertical center to compute Y^2 . The computed X^2 and Y^2 are inputted to an adder to compute the second power value R^2 of the distance from the optical axis. A multiplier multiplies R^2 by coefficient $A1$ to obtain correction coefficient $B1$. Limb darkening is corrected by the correction coefficient $B1$.